IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

> Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

TRANSMITTAL LETTER

With respect to the above identified application:

1. We are transmitting herewith the attached:

☐ Transmittal Letter (1 sheet);

☑ Information Disclosure Statement (IDS) (5 sheets);

 \boxtimes IDS Form 1449 (4 sheets);

Copy of Cited References numbered (4-40).

2. With respect to fees:

No fee is required.

3. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.

Respectfully Submitted,

McDonnel/Boehnen Hulbert & Berghoff LLP

Ву

David S. Harper Reg. No. 42,636

JUL 1 2 2007 W

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. 03-956-US)

In the App	lication of:)		
	Brophy, et al.)	Art Unit:	TBD
Serial No.:	10/575,294)		
Filed:	April 12, 2006)	Examiner:	TBD
)	Confirmatio	n No. 3701
For: Nov	el Heat Shock Protein 20-Related)		
Poly	pentides and Uses Therefor	Ś		

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97 - 1.99, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. Section 1.56. Copies of the references cited below are enclosed. These references are also listed on the enclosed PTO Form 1449.

In the judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently pending claims. However, the references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative relevance between references, whether cited in this or prior statements. This statement is not a representation that the listed references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. Section 102 or Section 103.

This I	nformation Disclosure Statement is being filed:
	within three months of the filing date of a national application; within three months of the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or before the mailing date of a first Office Action on the merits. 37 C.F.R. §1.97 (b)
	after three months of the filing date of a national application, or the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or after the mailing date of a first Office Action on the merits, but <u>before</u> the mailing date of a Final Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311 (whichever occurs first), and includes (37 C.F.R. § 1.97 (c):
	the Certification under 37 C.F.R. § 1.97(e) (see "Certification" below)
	OR
	the fee of \$180.00 set forth in 37 C.F.R. § 1.17(p) (see "Fees" below).
	after a Final Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311 (whichever occurs first), but before, or simultaneously with, the payment of the issue fee, and includes the Certification under 37 C.F.R. § 1.97(e) (see "Certification" below), and the Petition Fee set forth in 37 C.F.R. § 1.17(i) (see "Fees" and "Method of Payment of Fees" below). Applicants hereby petitions for consideration of the Information Disclosure Statement submitted herewith and the accompanying references in examination of the subject patent application.
<u>CERT</u>	TFICATION
	The undersigned hereby certifies that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
	The undersigned hereby certifies that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement

	No fee is owed by the applicant(s). The IDS Fee of \$180.00 under 37 C.F.R. § 1.17(p) is enclosed herewith.
METH	OD OF PAYMENT OF FEES Attached is a check in the amount of \$180.00
certify t	FICATE OF MAILING VIA EXPRESS MAIL DELIVERY under 37 C.F.R. § 1.10. I hereby that the attached paper of fee is being deposited with the United States Postal Service "Express Mail fice to Addressee" Service under 37 C.F.R.§ 1.10 on the date indicated above and is addressed to ssioner for Patents, Box 1450, Alexandria, VA, 22313-1450, on this 4 day of 1707, 2007. Express Mail No. EV840508124US.

Respectfully submitted,

Dávid S. Harper Registration No. 42,636

US Patent Documents

FFFS

- 1. Brophy, et al., US Publication No. 2003-0060399, published March 27, 2003
- 2. Brophy, et al., US Patent No. 7,135,453, Issued November 14, 2006
- 3. Panitch, et al., US Publication No. 2003-0190364, published October 9, 2003.

Foreign Patent Documents

- 4. W0 2004-017912 published March 4,2004
- 5. WO 2004-075914, published September 10, 2004
- 6. WO 2003-018758, published March 6, 2003

Other Documents

- 7. S Fawell et al., Proc Natl Acad Sci USA 91: 664-668,1994
- 8. Maurice Green et al., Cell 55 : 1179-1188, 1988
- 9. Alan D. Frankel et al., Cell 55: 1189-1193, 1988
- 10. Steven R. Schwarze et al., Science 285: 1569-1572,1999
- 11. Mudit Tyagi et al., JBiol Chem 276: 3254-3261,2001
- 12. Alan Ho et al., Cancer Res 61: 474-477,2001

- 13. G. J. Ramakers, W. H. Moolenaar, Exp. Cell Res. 245,252 (1998).
- 14. A. Beall et al., J. Biol. Chem. 274 (16),11344 (1999).
- 15. C. R. Flynn et al., Faseb J. 17, 1358 (2003).
- 16. C. S. Heacock, J. R. Bamburg, Anal. Biochem. 135,22 (1983).
- 17. J. E. Murphy-Ullrich, S. Gurusiddappa, W. A. Frazier, M. Hook, J. Biol. Chem. 268, 26784 (1993).
- 18. J. E. Murphy-Ullrich et al., J. Cell. Sci. 109,2499 (1996).
- 19. R. Niwa, K. Nagata-Ohashi, M. Takeichi, K. Mizuno, T. Uemura, Cell 108,233 (2002).
- 20. A. Gohla, G. M. Bokoch, Curr. Biol. 12(19), 1704 (2002).
- 21. H. Fu, R. R. Subramanian, S. C. Masters, Annu. Rev. P7zarmacol. Toxicol. 40,617 (2000).
- 22. M. B. Yaffe et al., Cell 91, 961 (1997).
- 23. S. H. Zhang, R. Kobayashi, P. R. Graves, H. Piwnica-Worms, and N. K. Tonks, J Biol. Chem. 272, 27281 (1997).
- 24. M. P. Washbum, D. Wolters, J. R. Yates III, Nat. Biotechnol. 19,242 (2001).
- 25. S. D. Macomson, C. M. Brophy, W. Miller, V. A. Harris, E. G. Shaver, Neurosurgery 51,204 (2002).
- 26. Birkenfeld J et al., Biochem J. 369(Pt1): 45-54 (2003)
- 27. Jens Pfannstiel et al., J. Biol. Chem. 276(52): 49476-49484 (2001)
- 28. Ghosh M. et al., Science 304: 743-746 (2004)
- 29. Bertling E et al., Mol. Biol. Cell 15: 2324-2334 (2004)
- 30. Wilker E. et al., J. Mol. Cell Cardiol. 37(3): 633-642 (2004)
- 31. Eibert SM et al., Proc Natl Acad Sci USA 101(7): 1957-1962 (2004)
- 32. Paavilainen VO et al., J. Biol. Chem. 277(45): 43089-43095 (2002)
- 33. Shen YH et al., Mol Biol. Cell 14: 4721-4733 (2003)
- 34. Morris MC et al., J. Biol. Chem. 275(37): 28849-28857 (2000)
- 35. Rembold et al., J. Appl. Physiol 91:1460-1466 (2001)
- 36. Wang et al., Diabetes 50:1821-1827
- 37. Beall et al., J. Biol Chem. 272(17): 11283-11297 (1997)
- 38. Brophy et al., J. Biol Chem., 274(10): 6324-6329 (1999)
- 39. Kanefusa Kato et al., J. Biol. Chem. 269(21): pp. 15302-15309 (1994)
- 40. Dreiza Catherine et al., FASEB J. express article 10.1096/fj.04-2911fje. Published online December 14, 2004.

In accordance with MPEP Sections 609 and 707.05(b), it is requested the document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

Date: 7/12/07

By:

David S. Harper

Respectfully submitted,

Reg. No. 42,636

McDonnell, Boehnen Hulbert & Berghoff LLP

300 South Wacker Drive, Suite #3100

Chicago, IL 60606

FORM PTO-1449 (Rev. 2-32)
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JUL 1 2 2007
TRADEMARK OF

U.S. Department of Commerce **Patent and Trademark Office**

Atty.	Docket	No.
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03-956-US

10/575,294

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

Brophy, et al.

Filing Date:

Group:

April 12, 2006

To be assigned

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
/AG/	1.	2003-0060399	March 27, 2003	Brophy, et al.			
/AG/	2.	7,135,453	November 14, 2006	Brophy, et al.			
/AG/	3.	2003-0190364	October 9, 2003	Panitch, et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Trans	lation
							Yes	No
/AG/	4.	WO 2004-017912	03/04/2004	WIPO				
/AG/	5.	WO 2004-075914	09/10/2004	WIPO				7.7.17
/AG/	6.	WO 2003-018758	March 6, 2003	WIPO				

EXAMINER	/Anish Gupta/	DATE CONSIDERED	09/13/2010

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Co Patent and Tradema		Atty. Docket No.	Serial No.
(Nev. 2-32)	ratent and Tradema	ik Onice	03-956-US	10/575,294
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
	(Use several sheets if necessary)			
			Applicant:	
			Brophy, et al.	
			Filing Date:	Group:
			April 12, 2006	To be assigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

Examiner Initial		
/AG/	7.	S Fawell et al., Proc Natl Acad Sci USA 91: 664-668,1994
	8.	Maurice Green et al., Cell 55 : 1179-1188, 1988
-	9.	Alan D. Frankel et al., Cell 55 : 1189-1193, 1988
	10.	Steven R. Schwarze et al., Science 285: 1569-1572,1999
20000000	11.	Mudit Tyagi et al., JBiol Chem 276 : 3254-3261,2001
00000000	12.	Alan Ho et al., Cancer Res 61: 474-477,2001
0000000	13.	G. J. Ramakers, W. H. Moolenaar, Exp. Cell Res. 245,252 (1998).
000000	14.	A. Beall et al., J. Biol. Chem. 274 (16),11344 (1999).
X00000000	15.	C. R. Flynn et al., Faseb J. 17, 1358 (2003).
00000	16.	C. S. Heacock, J. R. Bamburg, Anal. Biochem. 135,22 (1983).
0000	17.	J. E. Murphy-Ullrich, S. Gurusiddappa, W. A. Frazier, M. Hook, J. Biol. Chem. 268,
		26784 (1993).
V	18.	J. E. Murphy-Ullrich et al., J. Cell. Sci. 109,2499 (1996).
/AG/	19.	R. Niwa, K. Nagata-Ohashi, M. Takeichi, K. Mizuno, T. Uemura, Cell 108,233 (2002).

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FORM PTO-1449 (Rev. 2-32)		U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
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	INFORMATION DISCL STATEMENT BY APP		i	
	(Use several sheets if ne	ecessary)		
			Applicant:	
			Brophy, et al.	
			Filing Date:	Group:
			April 12, 2006	To be assigned

/AG/	20.	A. Gohla, G. M. Bokoch, Curr. Biol. 12(19), 1704 (2002).	
90000000000	21.	H. Fu, R. R. Subramanian, S. C. Masters, Annu. Rev. P7zarmacol. Toxicol. 40,617	
200000000		(2000).	
000000000000000000000000000000000000000	22.	M. B. Yaffe et al., Cell 91, 961 (1997).	
0000000	23.	S. H. Zhang, R. Kobayashi, P. R. Graves, H. Piwnica-Worms, and N. K. Tonks, J Biol.	
990000000		Chem. 272, 27281 (1997).	
9300000000	24.	M. P. Washbum, D. Wolters, J. R. Yates III, Nat. Biotechnol. 19,242 (2001).	
000000000	25.	S. D. Macomson, C. M. Brophy, W. Miller, V. A. Harris, E. G. Shaver, Neurosurgery	
333300000		51,204 (2002).	
0000000	26.	Birkenfeld J et al., Biochem J. 369(Pt1): 45-54 (2003)	
0000	27.	Jens Pfannstiel et al., J. Biol. Chem. 276(52): 49476-49484 (2001)	
0000000000	28.	Ghosh M. et al., Science 304: 743-746 (2004)	
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00000000000	32.	Paavilainen VO et al., J. Biol. Chem. 277(45): 43089-43095 (2002)	
	33.	Shen YH et al., Mol Biol. Cell 14: 4721-4733 (2003)	
/ÅG/	34.	Morris MC et al., J. Biol. Chem. 275(37): 28849-28857 (2000)	

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Sheet 4 of 4

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
(1107. 2 02)		03-956-US	10/575,294
INFORMATION DISC STATEMENT BY AP			
(Use several sheets if r	necessary)		
		Applicant:	
		Brophy, et al.	
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/AG/	35.	Rembold et al., J. Appl. Physiol 91:1460-1466 (2001)
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*	39.	Kanefusa Kato et al., J. Biol. Chem 269(21): pp. 15302-15309 (1994)
/AG/	40.	Dreiza Catherine et al., FASEB J. express article 10.1096/fj.04-2911fje. Published online December 14, 2004.

EXAMINER /Anish Gupta/	DATE CONSIDERED 09/13/2010
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